

WBMJ SAN JUAN, PR BL-12058 1190 kHz

Daytime

Electric Field Strength  
at 1 km radius  
millivolts per meter - mV/m

Power: 10.0 kW  
Graph Maximum: 2000 mV/m

- Theoretical
- Standard
- Augmented

Facility ID: 8440  
Application ID: 309046  
CDBS Antenna System ID: 11189

2 Towers  
17 Augmentations

Theoretical pattern RMS: 962.39

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	547.10	575.41	802.79
5	625.37	657.48	901.00
10	703.67	739.60	966.91
15	780.94	820.66	1040.19
20	856.16	899.58	1112.82
25	928.40	975.39	1177.33
30	996.83	1047.19	1228.49
35	1060.72	1114.25	1271.09
40	1119.53	1175.98	1315.19
45	1172.87	1231.96	1361.43
50	1220.50	1281.96	1392.08
55	1262.38	1325.92	1417.51
60	1298.61	1363.94	1450.54
65	1329.41	1396.28	1476.92
70	1355.14	1423.29	1487.99
75	1376.24	1445.43	1496.76
80	1393.18	1463.22	1515.19
85	1406.50	1477.19	1532.41
90	1416.68	1487.89	1534.36
95	1424.22	1495.79	1525.31
100	1429.51	1501.35	1517.91
105	1432.88	1504.90	1523.29
110	1434.59	1506.68	1538.91
115	1434.74	1506.84	1550.17
120	1433.35	1505.39	1551.86
125	1430.33	1502.21	1550.29
130	1425.44	1497.08	1548.38
135	1418.39	1489.68	1544.57
140	1408.77	1479.58	1537.10
145	1396.12	1466.30	1523.76
150	1379.94	1449.32	1497.03
155	1359.72	1428.09	1458.36
160	1334.95	1402.09	1414.23
165	1305.19	1370.85	1371.94
170	1270.08	1333.99	1413.55
175	1229.34	1291.23	1337.67

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

3 Feb 2017

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1182.85	1242.44	1260.43
185	1130.65	1187.64	1231.88
190	1072.90	1127.04	1202.16
195	1009.99	1061.01	1164.09
200	942.42	990.10	1111.28
205	870.88	915.03	1040.51
210	796.18	836.65	952.86
215	719.24	755.93	851.55
220	641.07	673.94	743.69
225	562.70	591.77	640.47
230	485.20	510.54	556.46
235	409.60	431.36	487.13
240	336.90	355.30	417.32
245	268.02	283.38	346.55
250	203.80	216.55	275.37
255	144.96	155.79	211.20
260	92.15	102.30	160.70
265	45.89	58.52	147.83
270	6.61	33.92	153.58
275	25.34	42.55	105.98
280	49.72	61.87	91.13
285	66.33	77.16	103.49
290	75.07	85.53	168.66
295	75.86	86.30	192.06
300	68.71	79.42	197.76
305	53.67	65.40	213.10
310	30.83	46.37	222.79
315	0.37	33.21	282.53
320	37.47	51.48	293.12
325	82.36	92.63	238.00
330	133.90	144.46	180.08
335	191.58	203.88	278.29
340	254.78	269.57	395.88
345	322.79	340.56	482.35
350	394.80	415.87	545.12
355	469.89	494.50	666.91